



Cat. No. 63-1005

**OWNER'S MANUAL**

Please read before using this equipment.

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**Ultrasonic  
Distance Measurer**

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**RadioShack®**





## FEATURES

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Your RadioShack Ultrasonic Distance Measurer is perfect for realtors, builders, and anyone who needs to know a measurement or a room's area quickly. Your measurer can quickly measure straight-line distances from 3 feet (0.91 meters) to 60 feet (18.288 meters). Your measurer transmits ultrasonic sound waves to a point you want to measure. Then it measures the time it takes for the waves to reflect back to the measurer and calculates and displays the distance.

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Your measurer has these features.

**Feet/Meter Switch** — lets you display measurements in feet or meters and converts a displayed measurement to the type you want.

**Liquid Crystal Display with Backlight** — you can light the display, making it easy to view information even in a dimly lit area.

**Automatic Power Off** — your measurer turns itself off if you do not press a button within about 4 minutes.

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**Three Memories** — let you measure and save up to three separate measurements. This is useful if you want to measure the length, width, and height of a room.

**Area and Volume Calculation** — calculates area or volume based on distances you measure.

**Addition and Subtraction Functions** — let you add or subtract up to two measurements.

**Memory Clear Function** — lets you quickly clear all saved measurements.

**Error Confirmation** — the measurers shows you if the distance you are measuring is too long or too short.

# CONTENTS

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<b>Preparation .....</b>	<b>7</b>
Installing Batteries .....	7
Stabilizing the Measurer .....	11
<b>A Quick Look .....</b>	<b>12</b>
<b>Operation .....</b>	<b>13</b>
Turning the Measurer On/Off ..	13
Taking a Measurement .....	14
Saving a Measurement .....	20
Calculating Volume .....	22
Calculating Area .....	23
Adding/Subtracting Stored Measurements .....	24
Using the Backlight .....	25
<b>Care .....</b>	<b>26</b>
<b>Specifications .....</b>	<b>28</b>

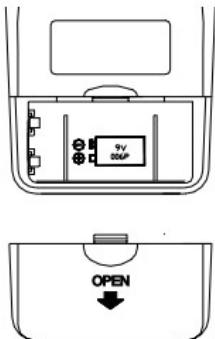
## PREPARATION

### INSTALLING BATTERIES

Your measurer requires one 9V battery (not supplied) for power. For the best performance and longest life, we recommend a RadioShack alkaline battery.

**Caution:** Use only a fresh battery of the required size and recommended type.

Follow these steps to install a battery.



1. Slide the battery compartment cover in the direction of the arrow to remove it.

2. Snap the battery in the compartment, and on top of the attached ribbon, as indicated by the polarity symbols (+ and -) marked inside.
3. Replace the cover.

When **LOW BATT** appears or the measurer stops operating properly, replace the battery.

**Warning:** Dispose of old batteries promptly and properly. Do not burn or bury them.

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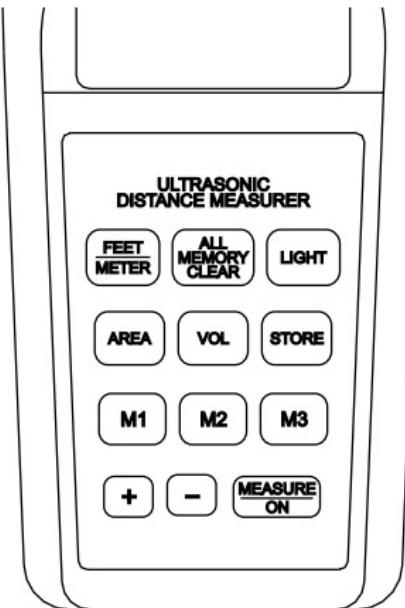
**Caution:** If you do not plan to use the measurer for a month or more, remove the battery. Batteries can leak chemicals that can destroy electronic parts.

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## STABILIZING THE MEASURER

Your measurer is sensitive to changes in temperature and humidity. Before you use the measurer, wait about 15 minutes for it to stabilize to the current room's temperature.

# A QUICK LOOK AT THE MEASURER



# OPERATION

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## TURNING THE MEASURER ON/OFF

To turn on the measurer, set **LD/NORMAL/OFF** on the side of the measurer to **LD** or **NORMAL**.

The measurer turns itself off after about 4 minutes. To turn off the measurer sooner, set **LD/NORMAL/OFF** to **OFF**.

**Note:** When you set **LD/NORMAL/OFF** on the side of the measurer to **OFF**, it clears all measurements stored in the memory.

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## TAKING A MEASUREMENT

1. If the distance you are measuring is 35 feet (10.67 meters) or less, set **LD/NORMAL/OFF** to **NORMAL** (normal range). Otherwise, set **LD/NORMAL/OFF** to **LD** (long distance range).
2. Repeatedly press **FEET/METER** until **FEET** appears (to measure in feet) or until **METER** appears (to measure in meters).

3. Hold the bottom of the measurer flat against a wall, about halfway between the floor and ceiling. Be sure there is a clear path to the point you want to measure and that your head or hands do not block the front of the measurer.
4. Press **MEASURE/ON**. The measurer beeps then the distance between the measurer and the point you measured appears.

## Notes:

- The measurement appears for about 4 minutes (or longer if you press another key).
- **Error** might appear if you try to measure a distance longer or shorter than the set range or longer than 60 feet (18.288 meters).

## Measuring Tips

- Some types of curtains and blinds can absorb sound waves, causing measurements to be inaccurate. If you are measuring distances in a room with curtains, open the curtains before measuring the distance to a window behind them. Also, be sure that the window is closed.
- If there is not a clear path between the points where you are measuring, you might receive a false reading from

sound waves bouncing off objects such as chairs, tables and objects with uneven surfaces. If you are not sure if a measurement is correct, move slightly to one side then measure the distance again.

- If the surface of a wall you are measuring is not solid and flat, or if you are measuring in a narrow corridor, you might receive a false reading. If this happens, use a solid surface to measure or move to the center of the corridor.

- To help avoid false readings, if you set **LD/NORMAL/OFF** to **LD**, make sure there are no objects within 8.2 feet (2.5 meters) of the point you are measuring (except the floor below that point).
- To measure a distance longer than 60 feet (18.288 meters), select a point in the middle of the room (for example), measure from the center of the room toward each side, then add the two measurements.

## SAVING A MEASUREMENT

1. Follow the steps under "Taking a Measurement" on Page 14 to measure a dimension.
2. Press **STORE** then a memory key (**M1**, **M2**, or **M3**). **M** and the number of the memory location you chose (1, 2, or 3) appear and the measurer stores the reading in that memory location.
3. If necessary, repeat Steps 1 and 2 to save up to three measurements.

4. To display a measurement stored in a memory location, press that memory key (**M1**, **M2**, or **M3**). The measurement stored in that memory location appears.

To delete a measurement stored in a memory location, simply store a new one in its place.

To clear all stored measurements, set **LD/NORMAL/OFF** to **OFF** or hold down **ALL MEMORY CLEAR** for about 3 seconds. The measurer beeps and **M** and the number of the memory location you chose (**1**, **2**, or **3**) disappears.

## CALCULATING VOLUME

To find the volume of a room, measure the height, width and length of the room and store each measurement in a different memory location (see “Saving a Measurement” on Page 20), then press **VOL. FEET3** or **METER3, VOLUME**, and the volume calculation result appear.

## CALCULATING AREA

Follow these steps to find the area of any two stored measurements.

1. Measure the width and length of a room and store the measurements in **M1** and **M2** (see "Saving a Measurement" on Page 20).
2. Press **AREA**, **M1**, and **M2**. **METER2** or **FEET2** and **AREA** and the area calculation appear.

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## ADDING/ SUBTRACTING STORED MEASUREMENTS

1. Measure any two dimensions of a room and store the measurements in memory locations 1 and 2 (see "Saving a Measurement" on Page 20).
2. Press **ALL MEMORY CLEAR**.
3. Press **+, M1, +, M2**, then **+** to add the measurements, or **+, M1, -, M2**, then **+** to subtract them. The value of the calculation appears.

4. To clear the display and do another measurement, press **ALL MEMORY CLEAR**.

**Note:** The measurer displays negative numbers.

## USING THE BACKLIGHT

To light the display, press **LIGHT**. The display lights for about five seconds then automatically turns off.



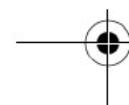
## CARE

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To enjoy your measurer for a long time:

- Keep the measurer dry. If it gets wet, wipe it dry immediately.
- Use and store the measurer only in normal temperature environments.
- Handle the measurer gently and carefully. Don't drop it.
- Keep the measurer away from dust and dirt.
- Wipe the measurer with a damp cloth occasionally to keep it looking new.



Modifying or tampering with the measurer's internal components can cause a malfunction and invalidate its warranty. If your measurer is not performing as it should, take it to your local RadioShack store for assistance.

## SPECIFICATIONS

Power Source ..... 1 × 9V  
Alkaline Battery

Unit of Measurement ..... Feet or  
Meters

Accuracy ..... 0.5% ( $\pm$  1 digit)

Working Frequency ..... 40 kHz

Working Temp. ..... 32° to 109.4°F  
(0° to 43°C)

Range ..... 3 to 60 ft  
(0.91 to 18.288 m)

Dimensions (HWD):

$5\frac{5}{8} \times 2\frac{7}{8} \times 1\frac{13}{16}$  in  
(142 × 73 × 47 mm)

Weight (without battery): 0.318 lb  
(144.6 g)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

## Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you. *(continued)*

*(continued)* In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period. This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

*(continued)*



*(continued)* This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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